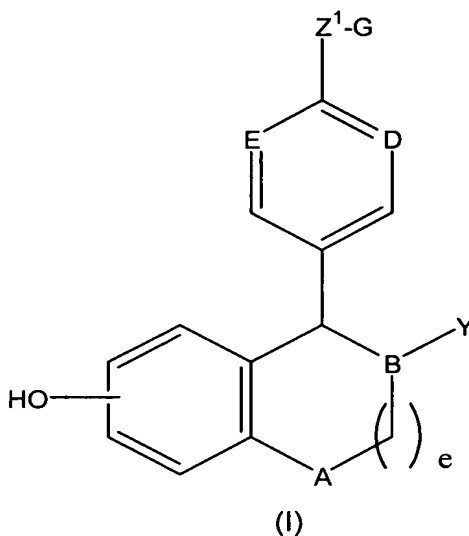


Claims

What is claimed is:

- 5 1. A method of treating cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma, the method comprising the step of administering to a patient having cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma a therapeutically effective amount of an estrogen agonist / antagonist that is a compound of formula (I):



wherein:

- A is selected from CH₂ and NR;
- 15 B, D and E are independently selected from CH and N;
- Y is
 - (a) phenyl, optionally substituted with 1-3 substituents independently selected from R⁴;
 - (b) naphthyl, optionally substituted with 1-3 substituents independently selected from R⁴;
 - 20 (c) C₃-C₈ cycloalkyl, optionally substituted with 1-2 substituents independently selected from R⁴;
 - (d) C₃-C₈ cycloalkenyl, optionally substituted with 1-2 substituents independently selected from R⁴;

(e) a five membered heterocycle containing up to two heteroatoms selected from the group consisting of -O-, -NR²- and -S(O)_n-, optionally substituted with 1-3 substituents independently selected from R⁴;

(f) a six membered heterocycle containing up to two heteroatoms selected from the group consisting of -O-, -NR²- and -S(O)_n-, optionally substituted with 1-3 substituents independently selected from R⁴; or

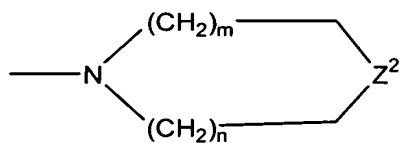
(g) a bicyclic ring system consisting of a five or six membered heterocyclic ring fused to a phenyl ring, said heterocyclic ring containing up to two heteroatoms selected from the group consisting of -O-, -NR²- and -S(O)_n-, optionally substituted with 1-3 substituents independently selected from R⁴;

Z¹ is

- (a) -(CH₂)_p W(CH₂)_q-;
- (b) -O(CH₂)_p CR⁵R⁶-;
- (c) -O(CH₂)_pW(CH₂)_q-;
- (d) -OCHR²CHR³-; or
- (e) -SCHR²CHR³-;

G is

- (a) -NR⁷R⁸;

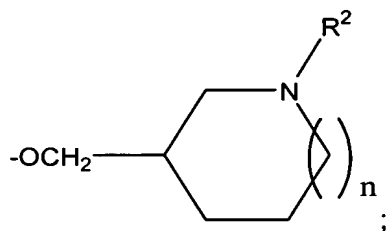


- (b)

wherein n is 0, 1 or 2; m is 1, 2 or 3; Z² is -NH-, -O-, -S-, or -CH₂-; optionally fused on adjacent carbon atoms with one or two phenyl rings and, optionally independently substituted on carbon with one to three substituents and, optionally, independently on nitrogen with a chemically suitable substituent selected from R⁴; or

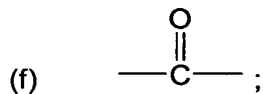
(c) a bicyclic amine containing five to twelve carbon atoms, either bridged or fused and optionally substituted with 1-3 substituents independently selected from R⁴; or

Z¹ and G in combination may be

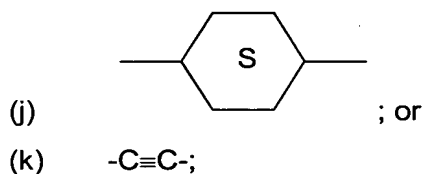


W is

- (a) $-\text{CH}_2-$;
- (b) $-\text{CH}=\text{CH}-$;
- (c) $-\text{O}-$;
- (d) $-\text{NR}^2-$;
- (e) $-\text{S}(\text{O})_n-$;



- (g) $-\text{CR}^2(\text{OH})-$;
- (h) $-\text{CONR}^2-$;
- (i) $-\text{NR}^2\text{CO}-$;



R is hydrogen or C_1 - C_6 alkyl;

R^2 and R^3 are independently

- (a) hydrogen; or
- (b) C_1 - C_4 alkyl;

R^4 is

- (a) hydrogen;
- (b) halogen;
- (c) C_1 - C_6 alkyl;
- (d) C_1 - C_4 alkoxy;
- (e) C_1 - C_4 acyloxy;
- (f) C_1 - C_4 alkylthio;
- (g) C_1 - C_4 alkylsulfinyl;
- (h) C_1 - C_4 alkylsulfonyl;
- (i) hydroxy (C_1 - C_4)alkyl;

- 5 (j) aryl (C₁-C₄)alkyl;
 (k) -CO₂H;
 (l) -CN;
 (m) -CONHOR;
 (n) -SO₂NHR;
 (o) -NH₂;
 (p) C₁-C₄ alkylamino;
 (q) C₁-C₄ dialkylamino;
 (r) -NHSO₂R;
 10 (s) -NO₂;
 (t) -aryl; or
 (u) -OH;

R⁵ and R⁶ are independently C₁-C₈ alkyl or together form a C₃-C₁₀ carbocyclic ring;

15 R⁷ and R⁸ are independently

- (a) phenyl;
 (b) a C₃-C₁₀ carbocyclic ring, saturated or unsaturated;
 (c) a C₃-C₁₀ heterocyclic ring containing up to two heteroatoms,
 selected from -O-, -N- and -S-;

- 20 (d) H;
 (e) C₁-C₆ alkyl; or
 (f) form a 3 to 8 membered nitrogen containing ring with R⁵ or R⁶;

25 R⁷ and R⁸ in either linear or ring form may optionally be substituted with up to three substituents independently selected from C₁-C₆ alkyl, halogen, alkoxy, hydroxy and carboxy;

a ring formed by R⁷ and R⁸ may be optionally fused to a phenyl ring;

e is 0, 1 or 2;

m is 1, 2 or 3;

30 n is 0, 1 or 2;

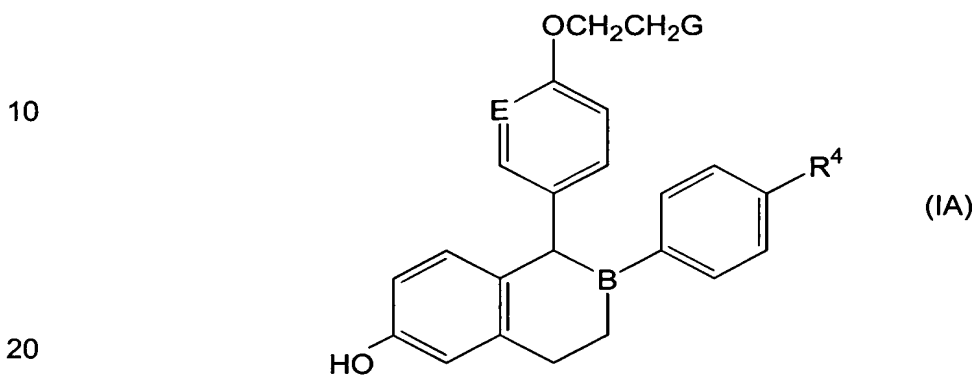
p̄ is 0, 1, 2 or 3;

q is 0, 1, 2 or 3;

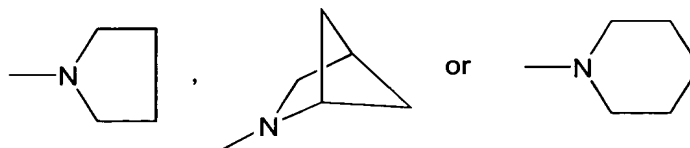
or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof.

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2. The method of claim 1 wherein the estrogen agonist / antagonist is a compound of formula (IA)



25 wherein G is



R^4 is H, OH, F, or Cl; and B and E are independently selected from CH and N or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt, or a prodrug thereof.

35 3. The method of claim 1 wherein the estrogen agonist / antagonist is (-)-cis-6-phenyl-5-[4-(2-pyrrolidin-1-yl-ethoxy)-phenyl]-5,6,7,8-tetrahydro-naphthalene-2-ol or an optical or geometric isomer thereof; a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt, or a prodrug thereof.

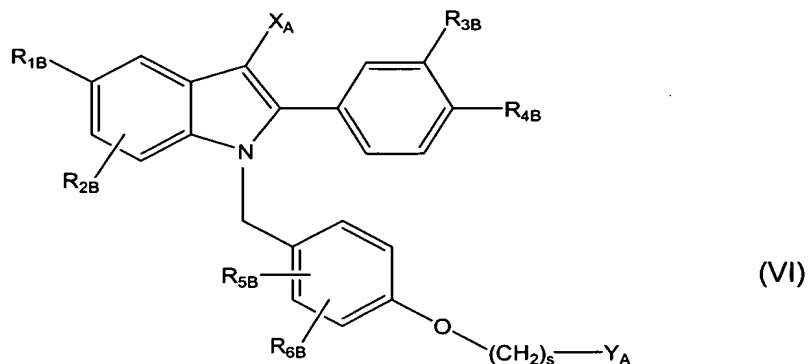
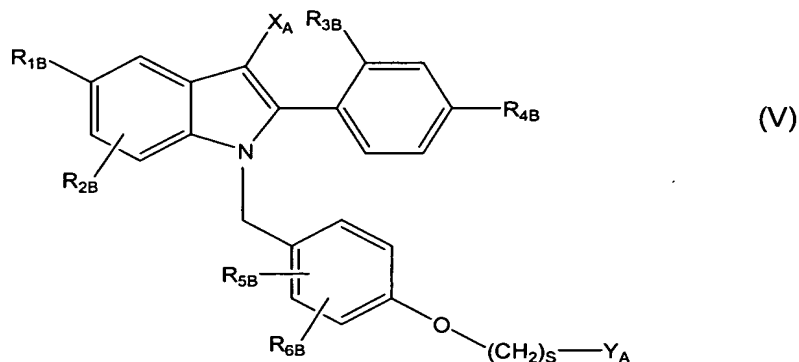
40 4. The method of claim 1 wherein the estrogen agonist / antagonist is (-)-cis-6-phenyl-5-[4-(2-pyrrolidin-1-yl-ethoxy)-phenyl]-5,6,7,8-tetrahydro-naphthalene-2-ol, D-tartrate salt.

45 5. A method of treating cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma, the method comprising the step of administering to a patient having cancer of the liver, ovarian cancer, a desmoid

tumor, glioma, pancreatic cancer, or renal cell carcinoma a therapeutically effective amount of an estrogen agonist / antagonist compound selected from:

- A) 4-hydroxy tamoxifen, droloxifene, toremifene, centchroman, idoxifene, raloxifene, 6-(4-hydroxy-phenyl)-5-[4-(2-piperidin-1-yl-ethoxy)-benzyl]-naphthalen-2-ol, {4-[2-(2-aza-bicyclo[2.2.1]hept-2-yl)-ethoxy]-phenyl}-[6-hydroxy-2-(4-hydroxy-phenyl)-benzo[b]thiophen-3-yl]-methanone, EM-652, EM-800, GW 5638, GW 7604, or an optical or geometric isomer thereof; pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt, or prodrug thereof;

B) a compound of formula V or VI:



wherein:

R_{1B} is selected from H, OH, -O-C(O)-C₁-C₁₂ alkyl (straight chain or branched), -O-C₁-C₁₂ alkyl (straight chain or branched or cyclic), or halogens or C₁-C₄ halogenated ethers;

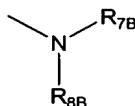
5 R_{2B} , R_{3B} , R_{4B} , R_{5B} , and R_{6B} are independently selected from H, OH, -O-C(O)-C₁-C₁₂ (straight chain or branched), -O-C₁-C₁₂ (straight chain or branched or cyclic), halogens, or C₁-C₄ halogenated ethers, cyano, C₁-C₆ alkyl (straight chain or branched), or trifluoromethyl;

10 X_A is selected from H, C₁-C₆ alkyl, cyano, nitro, trifluoromethyl, and halogen;

s is 2 or 3;

Y_A is the moiety:

15



wherein:

20 a) R_{7B} and R_{8B} are independently selected from the group of H, C₁-C₆ alkyl, or phenyl optionally substituted by CN, C₁-C₆ alkyl (straight chain or branched), C₁-C₆ alkoxy (straight chain or branched), halogen, -OH, -CF₃, or -OCF₃; or

25 b) R_{7B} and R_{8B} are concatenated to form a five-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, C₁-C₄ alkyl, trihalomethyl, C₁-C₄ alkoxy, trihalomethoxy, C₁-C₄ acyloxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, hydroxy (C₁-C₄)alkyl, -CO₂H, -CN, -CONHR_{1B}, -NH₂, -NH(C₁-C₄ alkyl), -N(C₁-C₄ alkyl)₂, -NHSO₂R_{1B}, -NHCOR_{1B}, -NO₂, or phenyl optionally substituted with 1-3 (C₁-C₄)alkyl; or

30

c) R_{7B} and R_{8B} are concatenated to form a six-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, C₁-C₄ alkyl, trihalomethyl, C₁-C₄ alkoxy, trihalomethoxy, C₁-C₄ acyloxy,

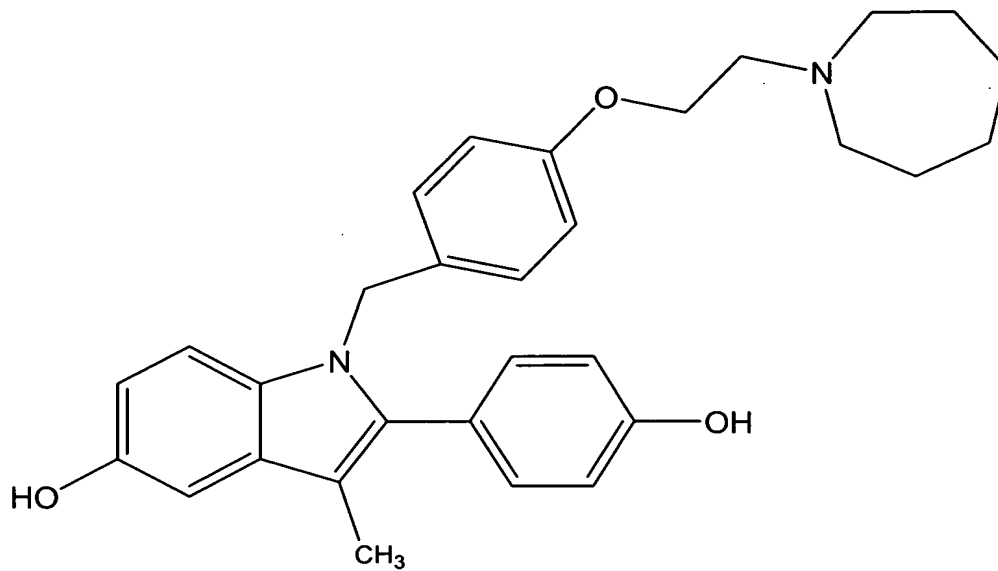
C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, hydroxy (C₁-C₄)alkyl, -CO₂H, -CN, -CONHR_{1B}, -NH₂, -NH(C₁-C₄ alkyl), -N(C₁-C₄ alkyl)₂, -NHSO₂R_{1B}, -NHCOR_{1B}, -NO₂, or phenyl optionally substituted with 1-3 (C₁-C₄)alkyl; or

- 5 d) R_{7B} and R_{8B} are concatenated to form a seven-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, C₁-C₄ alkyl, trihalomethyl, C₁-C₄ alkoxy, trihalomethoxy, C₁-C₄ acyloxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, hydroxy (C₁-C₄)alkyl, 10 -CO₂H, -CN, -CONHR_{1B}, -NH₂, -NH(C₁-C₄ alkyl), -N(C₁-C₄ alkyl)₂, -NHSO₂ R_{1B}, -NHCOR_{1B}, -NO₂, or phenyl optionally substituted with 1-3 (C₁-C₄)alkyl; or

- e) R_{7B} and R_{8B} are concatenated to form an eight-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 15 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, C₁-C₄ alkyl, trihalomethyl, C₁-C₄ alkoxy, trihalomethoxy, C₁-C₄ acyloxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, hydroxy (C₁-C₄)alkyl, -CO₂H, -CN, -CONHR_{1B}, -NH₂, -NH(C₁-C₄ alkyl), -N(C₁-C₄ alkyl)₂, -NHSO₂R_{1B}, -NHCOR_{1B}, -NO₂, or phenyl optionally substituted with 1-3 (C₁-C₄)alkyl; or

- 20 f) R_{7B} and R_{8B} are concatenated to form a saturated bicyclic heterocycle containing from 6-12 carbon atoms either bridged or fused and containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, C₁-C₄ alkyl, trihalomethyl, C₁-C₄ alkoxy, trihalomethoxy, C₁-C₄ acyloxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, hydroxy (C₁-C₄)alkyl, -CO₂ H, -CN, -CONHR_{1B}, 25 -NH₂, -NH(C₁-C₄ alkyl), -N(C₁-C₄ alkyl)₂, -NHSO₂R_{1B}, -NHCOR_{1B}, -NO₂, or phenyl optionally substituted with 1-3 (C₁-C₄) alkyl; or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or 30 prodrug thereof;

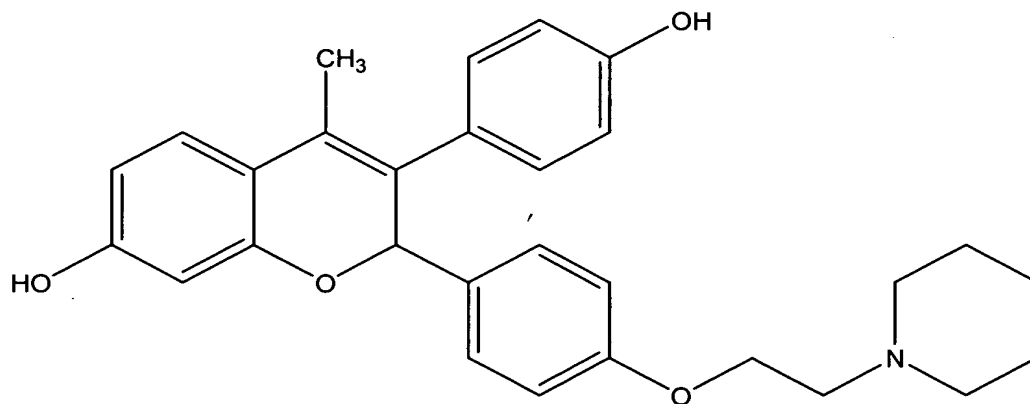
C) the compound of formula Va:



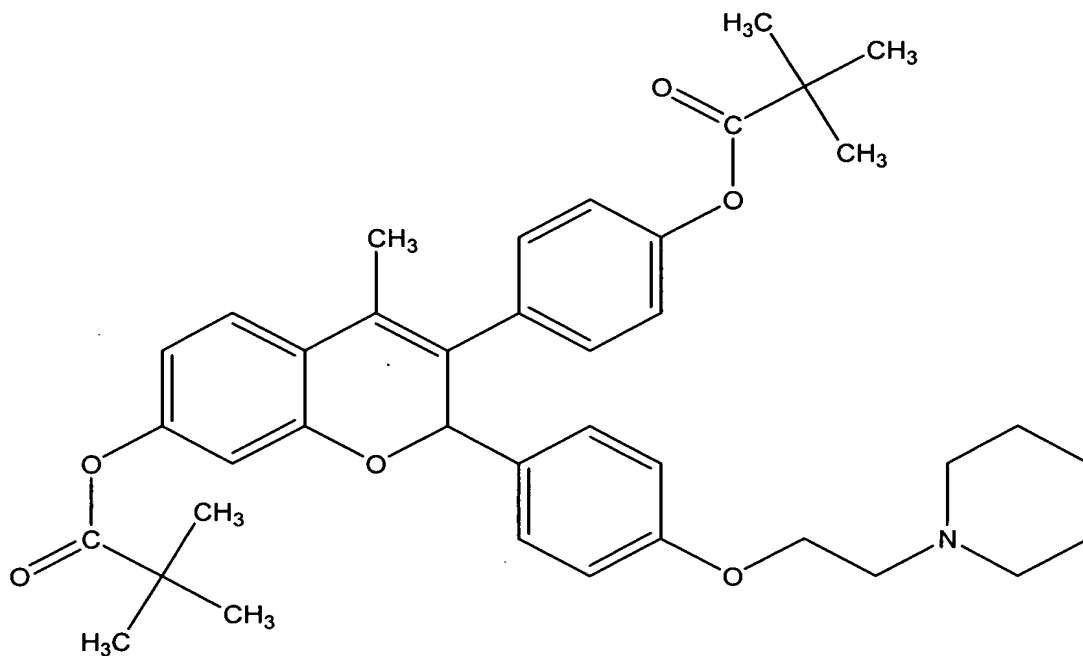
(Va)

- 5 or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof; or

D) the compound of formula III (EM-652) or formula IV (EM-800) below:



(III)

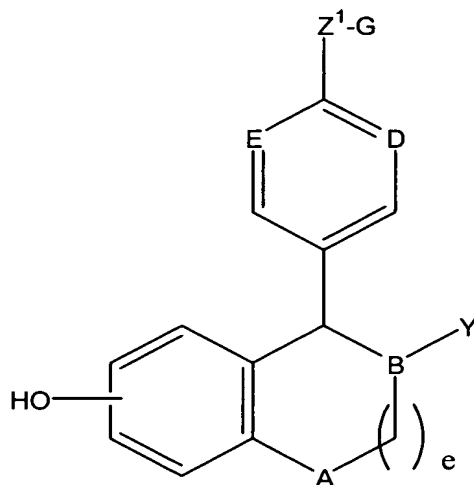


(IV)

- 5 or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof.



6. A kit for use by a consumer to treat cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma, the kit comprising:
 (a) a pharmaceutical composition comprising an estrogen agonist / antagonist that
 10 is compound of formula (I):



(I)

wherein:

5 A is selected from CH_2 and NR ;

 B, D and E are independently selected from CH and N;

 Y is

 (a) phenyl, optionally substituted with 1-3 substituents
independently selected from R^4 ;

10 (b) naphthyl, optionally substituted with 1-3 substituents
independently selected from R^4 ;

 (c) $\text{C}_3\text{-C}_8$ cycloalkyl, optionally substituted with 1-2 substituents
independently selected from R^4 ;

 (d) $\text{C}_3\text{-C}_8$ cycloalkenyl, optionally substituted with 1-2
15 substituents independently selected from R^4 ;

 (e) a five membered heterocycle containing up to two
heteroatoms selected from the group consisting of -O-, -NR^2 - and -S(O)_n -, optionally
substituted with 1-3 substituents independently selected from R^4 ;

 (f) a six membered heterocycle containing up to two
20 heteroatoms selected from the group consisting of -O-, -NR^2 - and -S(O)_n -, optionally
substituted with 1-3 substituents independently selected from R^4 ; or

 (g) a bicyclic ring system consisting of a five or six membered
heterocyclic ring fused to a phenyl ring, said heterocyclic ring containing up to two
heteroatoms selected from the group consisting of -O-, -NR^2 - and -S(O)_n -, optionally
25 substituted with 1-3 substituents independently selected from R^4 ;

Z^1 is

 (a) $\text{-(CH}_2)_p \text{W(CH}_2)_q \text{-}$;

 (b) $\text{-O(CH}_2)_p \text{CR}^5\text{R}^6 \text{-}$;

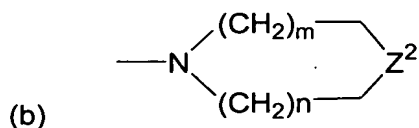
 (c) $\text{-O(CH}_2)_p \text{W(CH}_2)_q \text{-}$;

30 (d) $\text{-OCHR}^2\text{CHR}^3 \text{-}$; or

 (e) $\text{-SCHR}^2\text{CHR}^3 \text{-}$;

 G is

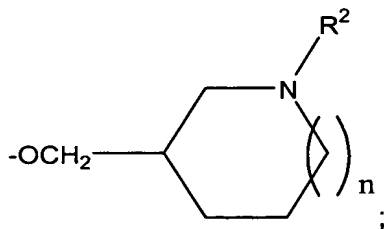
 (a) $\text{-NR}^7\text{R}^8$;



wherein n is 0, 1 or 2; m is 1, 2 or 3; Z² is -NH-, -O-, -S-, or -CH₂-;
optionally fused on adjacent carbon atoms with one or two phenyl rings and,
optionally independently substituted on carbon with one to three substituents and,
5 optionally, independently on nitrogen with a chemically suitable substituent selected
from R⁴; or

(c) a bicyclic amine containing five to twelve carbon atoms,
either bridged or fused and optionally substituted with 1-3 substituents
independently selected from R⁴; or

10 Z¹ and G in combination may be



W is

- (a) -CH₂-;
(b) -CH=CH-;
(c) -O-;
(d) -NR²-;
(e) -S(O)_n-;

- (f) ;
(g) -CR²(OH)-;
(h) -CONR²-;
(i) -NR²CO-;

- (j) ; or
(k) -C≡C-;

R is hydrogen or C₁-C₆ alkyl;

25 R² and R³ are independently

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- (a) hydrogen; or
(b) C₁-C₄ alkyl;
- R⁴ is
- 5 (a) hydrogen;
(b) halogen;
(c) C₁-C₆ alkyl;
(d) C₁-C₄ alkoxy;
(e) C₁-C₄ acyloxy;
(f) C₁-C₄ alkylthio;
- 10 (g) C₁-C₄ alkylsulfinyl;
(h) C₁-C₄ alkylsulfonyl;
(i) hydroxy (C₁-C₄)alkyl;
(j) aryl (C₁-C₄)alkyl;
(k) -CO₂H;
- 15 (l) -CN;
(m) -CONHOR;
(n) -SO₂NHR;
(o) -NH₂;
- 20 (p) C₁-C₄ alkylamino;
(q) C₁-C₄ dialkylamino;
(r) -NHSO₂R;
(s) -NO₂;
(t) -aryl; or
(u) -OH;
- 25 R⁵ and R⁶ are independently C₁-C₈ alkyl or together form a C₃-C₁₀ carbocyclic ring;
- R⁷ and R⁸ are independently
- 30 (a) phenyl;
(b) a C₃-C₁₀ carbocyclic ring, saturated or unsaturated;
(c) a C₃-C₁₀ heterocyclic ring containing up to two heteroatoms, selected from -O-, -N- and -S-;
(d) H;
(e) C₁-C₆ alkyl; or

(f) form a 3 to 8 membered nitrogen containing ring with R⁵ or R⁶;

R⁷ and R⁸ in either linear or ring form may optionally be substituted with up to three substituents independently selected from C₁-C₆ alkyl, halogen, alkoxy,

5 hydroxy and carboxy;

a ring formed by R⁷ and R⁸ may be optionally fused to a phenyl ring;

e is 0, 1 or 2;

m is 1, 2 or 3;

n is 0, 1 or 2;

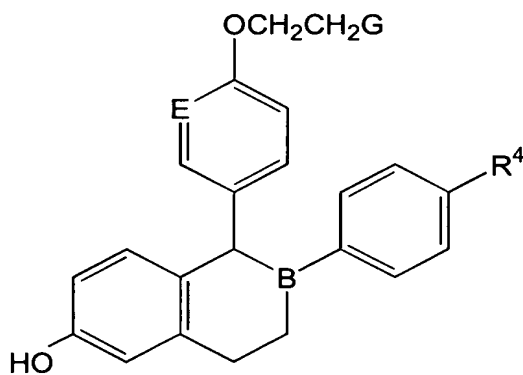
10 p is 0, 1, 2 or 3;

q is 0, 1, 2 or 3;

or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof; and

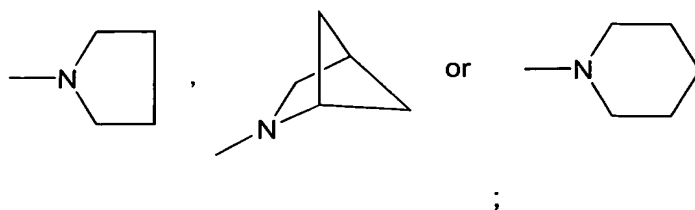
15 (b) instructions describing a method of using the pharmaceutical composition to treat cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma.

7. The kit of claim 6 wherein the estrogen agonist / antagonist is a compound of
20 formula (IA):



(IA)

wherein G is



R⁴ is H, OH, F, or Cl; and B and E are independently selected from CH and N or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt, or a prodrug thereof.

8. The kit of claim 6 wherein the estrogen agonist / antagonist is (-)-cis-6-phenyl-5-[4-(2-pyrrolidin-1-yl-ethoxy)-phenyl]-5,6,7,8-tetrahydro-naphthalene-2-ol or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt, or a prodrug thereof.

9. The kit of claim 6 wherein the estrogen agonist / antagonist is (-)-cis-6-phenyl-5-[4-(2-pyrrolidin-1-yl-ethoxy)-phenyl]-5,6,7,8-tetrahydro-naphthalene-2-ol, D-tartrate salt.

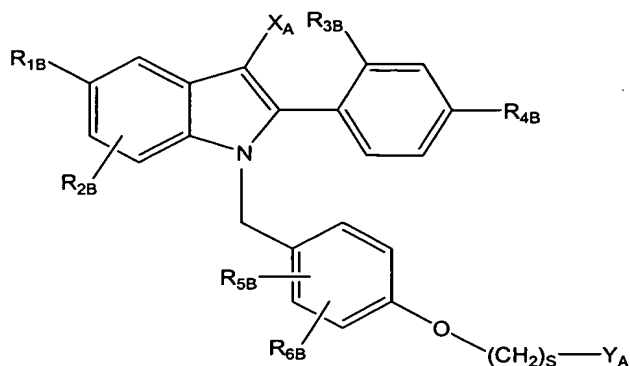
10. A kit for use by a consumer to treat cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma, the kit comprising:

(a) a pharmaceutical composition comprising an estrogen agonist / antagonist compound selected from:

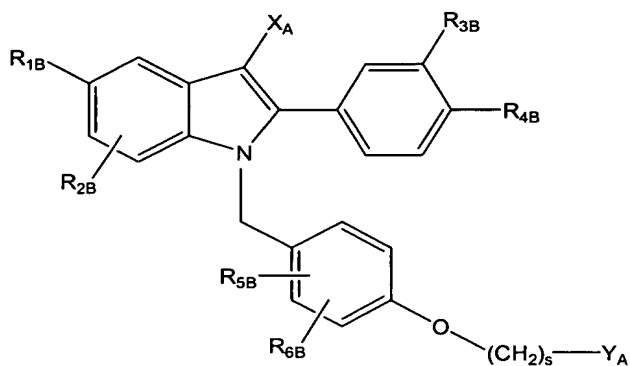
A) 4-hydroxy tamoxifen, droloxifene, toremifene, centchroman, idoxifene, raloxifene, 6-(4-hydroxy-phenyl)-5-[4-(2-piperidin-1-yl-ethoxy)-benzyl]-naphthalen-2-ol, {4-[2-(2-aza-bicyclo[2.2.1]hept-2-yl)-ethoxy]-phenyl}-[6-hydroxy-2-(4-hydroxy-phenyl)-benzo[b]thiophen-3-yl]-methanone, EM-652, EM-800, GW 5638, GW 7604, or an optical or geometric isomer thereof; pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt, or prodrug thereof;

B) a compound of formula V or VI:

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(V)



(VI)

wherein:

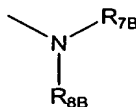
R_{1B} is selected from H, OH, $-O-C(O)-C_1-C_{12}$ alkyl (straight chain or branched), $-O-C_1-C_{12}$ alkyl (straight chain or branched or cyclic), or halogens or C_1-C_4 halogenated ethers;

R_{2B} , R_{3B} , R_{4B} , R_{5B} , and R_{6B} are independently selected from H, OH, $-O-C(O)-C_1-C_{12}$ (straight chain or branched), $-O-C_1-C_{12}$ (straight chain or branched or cyclic), halogens, or C_1-C_4 halogenated ethers, cyano, C_1-C_6 alkyl (straight chain or branched), or trifluoromethyl;

X_A is selected from H, C_1-C_6 alkyl, cyano, nitro, trifluoromethyl, and halogen;

s is 2 or 3;

Y_A is the moiety:



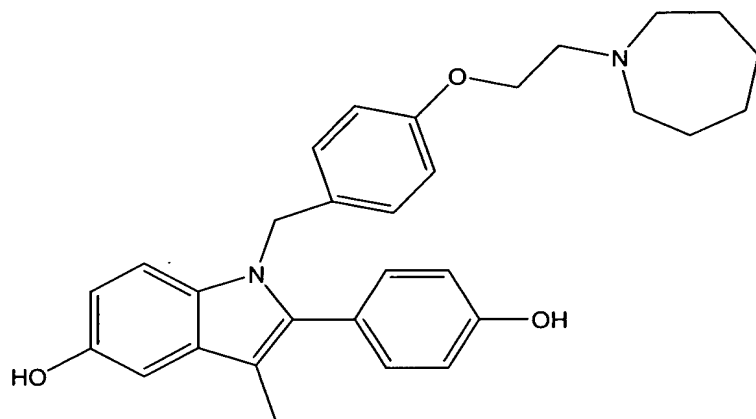
wherein:

- 5 a) $\text{R}_{7\text{B}}$ and $\text{R}_{8\text{B}}$ are independently selected from the group of H, $\text{C}_1\text{-C}_6$ alkyl, or phenyl optionally substituted by CN, $\text{C}_1\text{-C}_6$ alkyl (straight chain or branched), $\text{C}_1\text{-C}_6$ alkoxy (straight chain or branched), halogen, -OH, - CF_3 , or - OCF_3 ; or
- 10 b) $\text{R}_{7\text{B}}$ and $\text{R}_{8\text{B}}$ are concatenated to form a five-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, $\text{C}_1\text{-C}_4$ alkyl, trihalomethyl, $\text{C}_1\text{-C}_4$ alkoxy, trihalomethoxy, $\text{C}_1\text{-C}_4$ acyloxy, $\text{C}_1\text{-C}_4$ alkylthio, $\text{C}_1\text{-C}_4$ alkylsulfinyl, $\text{C}_1\text{-C}_4$ alkylsulfonyl, hydroxy ($\text{C}_1\text{-C}_4$)alkyl, - CO_2H , -CN, - $\text{CONHR}_{1\text{B}}$, - NH_2 , - $\text{NH}(\text{C}_1\text{-C}_4 \text{ alkyl})$, - $\text{N}(\text{C}_1\text{-C}_4 \text{ alkyl})_2$, - $\text{NHSO}_2\text{R}_{1\text{B}}$, - $\text{NHCOR}_{1\text{B}}$,
15 - NO_2 , or phenyl optionally substituted with 1-3 ($\text{C}_1\text{-C}_4$)alkyl; or
- 20 c) $\text{R}_{7\text{B}}$ and $\text{R}_{8\text{B}}$ are concatenated to form a six-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, $\text{C}_1\text{-C}_4$ alkyl, trihalomethyl, $\text{C}_1\text{-C}_4$ alkoxy, trihalomethoxy, $\text{C}_1\text{-C}_4$ acyloxy, $\text{C}_1\text{-C}_4$ alkylthio, $\text{C}_1\text{-C}_4$ alkylsulfinyl, $\text{C}_1\text{-C}_4$ alkylsulfonyl, hydroxy ($\text{C}_1\text{-C}_4$)alkyl, - CO_2H , -CN, - $\text{CONHR}_{1\text{B}}$, - NH_2 , - $\text{NH}(\text{C}_1\text{-C}_4 \text{ alkyl})$, - $\text{N}(\text{C}_1\text{-C}_4 \text{ alkyl})_2$, - $\text{NHSO}_2\text{R}_{1\text{B}}$, - $\text{NHCOR}_{1\text{B}}$,
25 - NO_2 , or phenyl optionally substituted with 1-3 ($\text{C}_1\text{-C}_4$)alkyl; or
- 30 d) $\text{R}_{7\text{B}}$ and $\text{R}_{8\text{B}}$ are concatenated to form a seven-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, $\text{C}_1\text{-C}_4$ alkyl, trihalomethyl, $\text{C}_1\text{-C}_4$ alkoxy, trihalomethoxy, $\text{C}_1\text{-C}_4$ acyloxy, $\text{C}_1\text{-C}_4$ alkylthio, $\text{C}_1\text{-C}_4$ alkylsulfinyl, $\text{C}_1\text{-C}_4$ alkylsulfonyl, hydroxy ($\text{C}_1\text{-C}_4$)alkyl, - CO_2H , -CN, - $\text{CONHR}_{1\text{B}}$, - NH_2 , - $\text{NH}(\text{C}_1\text{-C}_4 \text{ alkyl})$, - $\text{N}(\text{C}_1\text{-C}_4 \text{ alkyl})_2$, - $\text{NHSO}_2\text{R}_{1\text{B}}$, - $\text{NHCOR}_{1\text{B}}$, - NO_2 , or phenyl optionally substituted with 1-3 ($\text{C}_1\text{-C}_4$)alkyl; or
- e) $\text{R}_{7\text{B}}$ and $\text{R}_{8\text{B}}$ are concatenated to form an eight-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with

- 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, C₁-C₄ alkyl, trihalomethyl, C₁-C₄ alkoxy, trihalomethoxy, C₁-C₄ acyloxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, hydroxy (C₁-C₄)alkyl, -CO₂H, -CN, -CONHR_{1B}, -NH₂, -NH(C₁-C₄ alkyl), -N(C₁-C₄ alkyl)₂, -NHSO₂R_{1B},
5 -NHCOR_{1B}, -NO₂, or phenyl optionally substituted with 1-3 (C₁-C₄)alkyl; or

- f) R_{7B} and R_{8B} are concatenated to form a saturated bicyclic heterocycle containing from 6-12 carbon atoms either bridged or fused and containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents
10 independently selected from the group consisting of hydrogen, hydroxyl, halo, C₁-C₄ alkyl, trihalomethyl, C₁-C₄ alkoxy, trihalomethoxy, C₁-C₄ acyloxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, hydroxy (C₁-C₄)alkyl, -CO₂H, -CN, -CONHR_{1B}, -NH₂, -NH(C₁-C₄ alkyl), -N(C₁-C₄ alkyl)₂, -NHSO₂R_{1B}, -NHCOR_{1B}, -NO₂, or phenyl optionally substituted with 1-3 (C₁-C₄) alkyl; or an optical or geometric isomer
15 thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof;

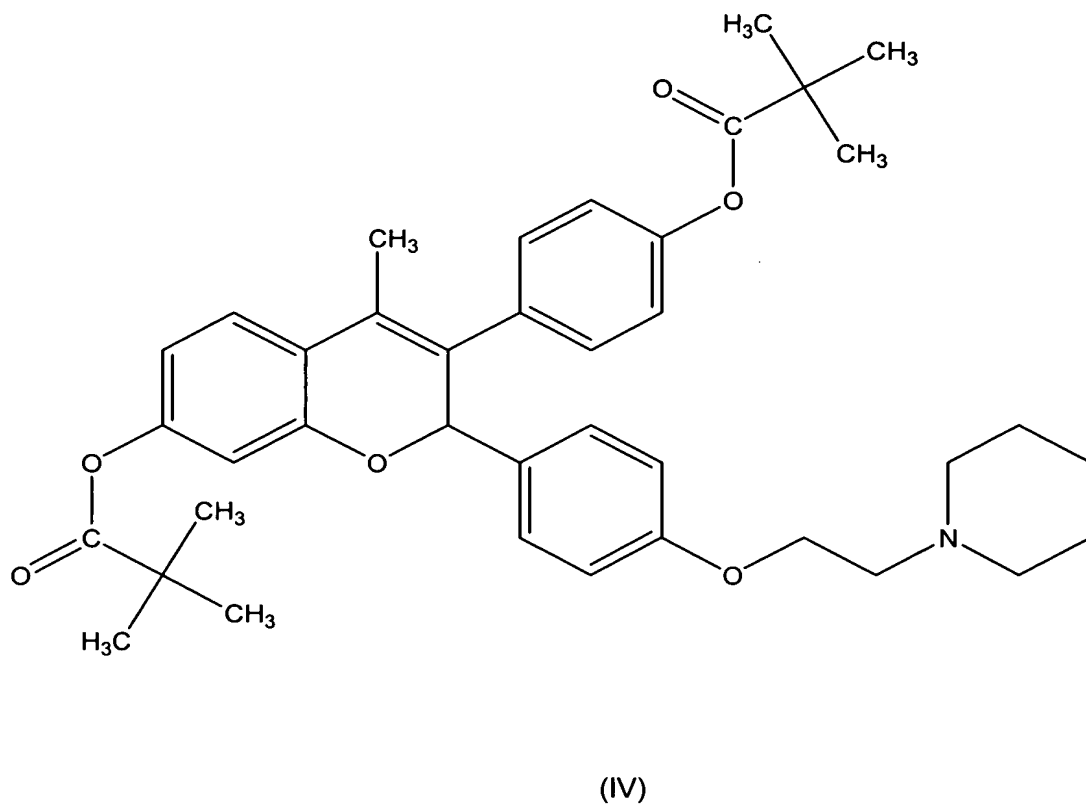
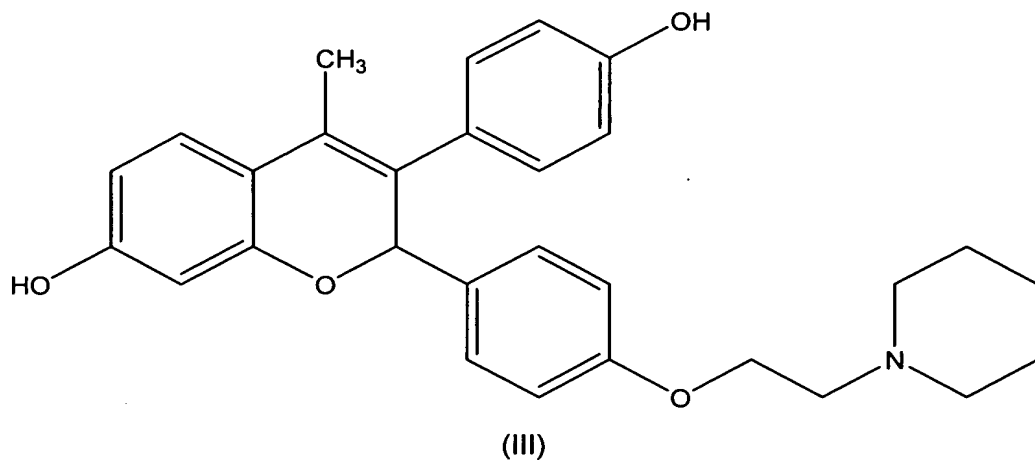
C) the compound of formula Va (TSE-424) below:



(Va)

or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof; or

- 25 D) the compound of formula III (EM-652) or formula IV (EM-800) below:



5 or an optical or geometric isomer thereof; or a pharmaceutically acceptable
 10 salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof; and

(b) instructions describing a method of using the pharmaceutical composition to treat cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma.

5

11. The kit of claim 6 wherein the kit further comprises an additional compound that is useful to treat cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma.

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